

CDF Operations Report

Sung-Won Lee

CDF Weekly Meeting November 3, 2005 Store Summary (10/27~11/3)

Store	start Date	time [hours]	initial Iumi [E30]	int. lumi delivered [pb ⁻¹]	live lumi [pb ⁻¹]	GoodRun w/ si [pb ⁻¹]	comments
4473	10/27	30.9	166.5	5.72	4.00 70%	3.95 69%	L2 troubles, ToF HV tripped
4475	10/28	25.3	149.1	4.62	3.02 65%	2.86 62%	COT off at start, Pulsar hang up again
4476	10/30	28.9	158.2	5.49	4.24 77%	4.13 75%	L2 problems due to high luminosity
4477	10/31	29.9	170.4	5.65	4.07 72%	4.07 72%	Record Init. Lumi. Startup prob. again
4480	11/2	17.0	159.1	4.02	2.88 72%	0.65 16%	Problem from the start with XFT
4481	11/3		160.4	In progress			CLC00 Done TO CSL problems,
Total	10/27- 11/3	132+	160.6	25.5 pb ⁻¹	18.2 pb ⁻¹ 71.4%	15.7pb ⁻¹ 61.4%	Smooth running right now ©

We're having several problems at the start; spent many hours to fix the problems. Hope that CDF can come back to normal operation, ~90% eff., ☺

CDF Operations [I]

• Store 4473

- Down for the 1st 2 hrs due to L2 link problem
- ToF HV tripped
- Replace a NIM power supply for the abort gap loss monitor electronics

• Controlled access (Friday)

Replaced a bad VME processor and the TDC in slot 16

• <u>Store 4475</u> (Fri-Sat)

- 4 hrs downtime due to problems with (1) COT SL0 HV control and (2) L2 decision PC PCI bus at start
- Beam losses also resulted in some downtime in the middle

• <u>Store 4476</u> (Sun-Mon)

- Down for the 1st 1 hr of store due to pilot error (wrong trigger table; resulted in many problems with Silicon handbrake, EVM/L3)
- BMU HV tripped several times at the end of store

CDF Operations [II]

• Store 4477 (Mon-Tue)

- Starts with an Int. Lumi. of 170.4E30 "Record Init. Luminosity"
 - → The shot started with a record Recycler stash of 320E10 pbars
- Two Problems at the start
 - (1) <u>COT SL1 HV did not come up</u>, (2) <u>L2 decision PC hung</u> due to PCI bus contention between the L2 card and the hard disk
- "Noise" in the CLC luminosity measurement CLC folks are investigating now. (see next slide)

• Controlled access (Tuesday)

- Tracer in b0wcal00 was replaced. There were some collateral problem in b0cot09; fixed.
- CMP: North wall stack 21/22 signal cables were un-swapped

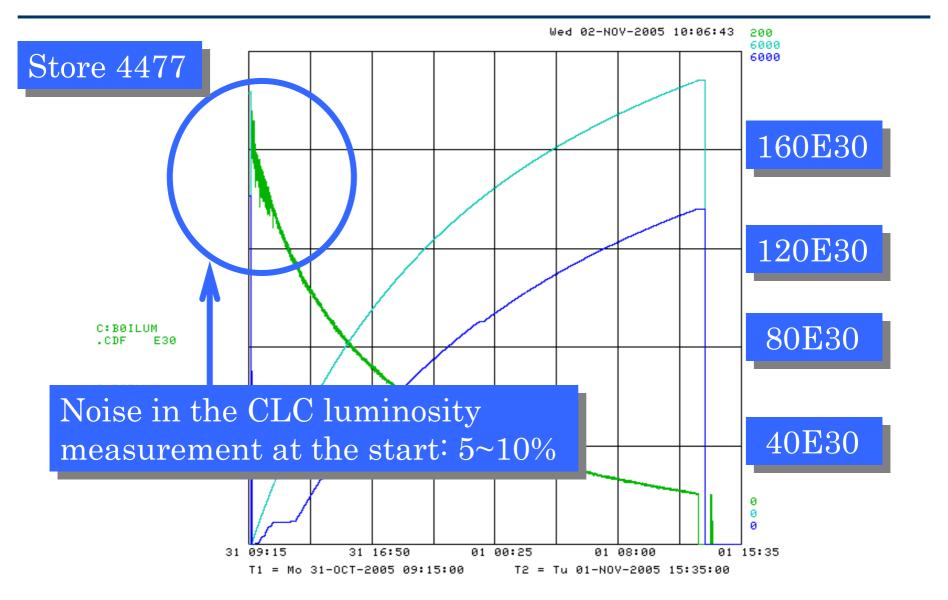
• Store 4480 (Wednesday)

- Started up smoothly, L2 decision PC didn't hang, but we had trouble with XFT (problem with XFT internal clock) the data is bad for L1
- Trigger studies with UPS at 70E30, and Silicon handbrake studies
- Beam clean abort (TRF6 tripped)

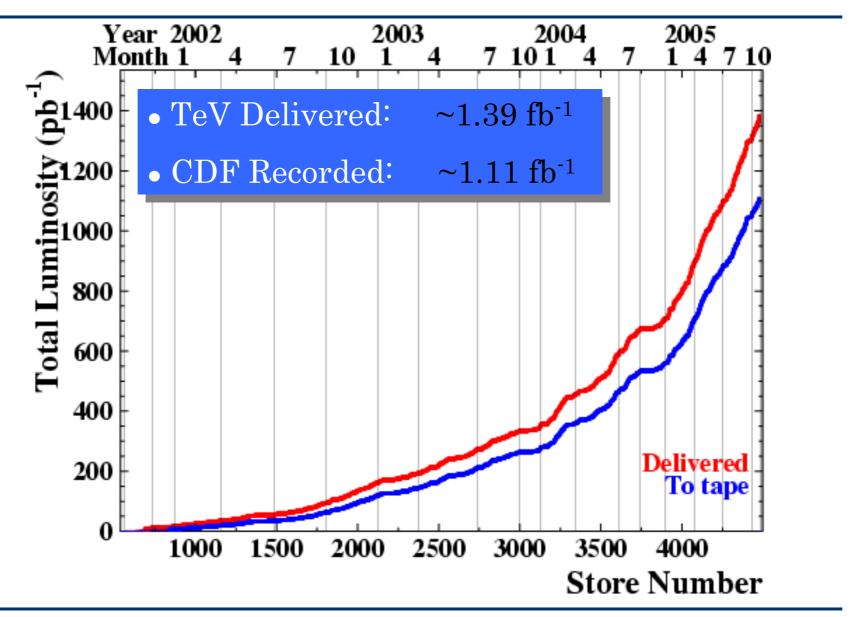
• <u>Controlled access</u> (Wednesday)

• Swapped the TDCs in slot 7 and 14 in b0cot07, to fix the XFT problem – checkout went fine. • Thanks, Jianrong, Nils and Steve. ☺

Issue on Luminosity Measurement



Run II Integrated Luminosity



Run II Initial Luminosity

